10 MINUTE SCHOOL

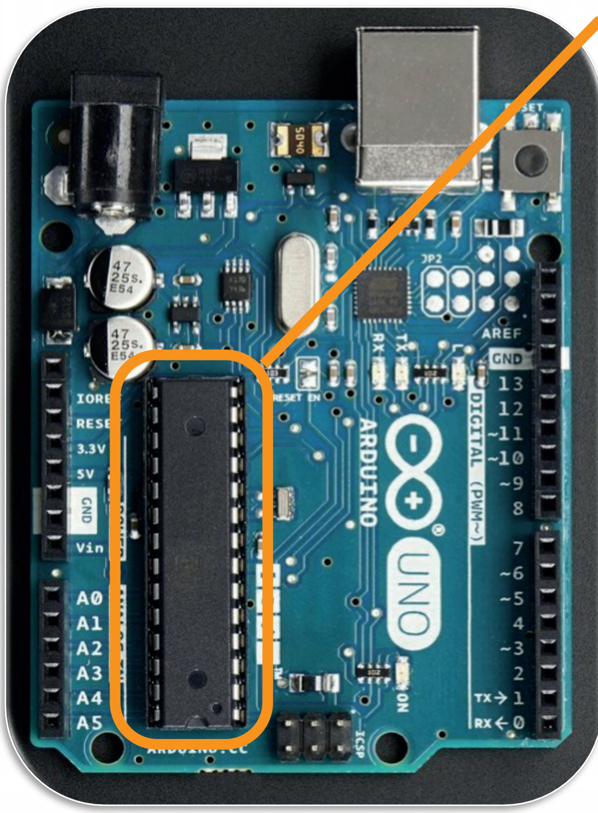
Robotics for Kids

What is MCU?

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What is MCU?

Hidden treasure of Arduino UNO



If we take this out from UNO board then we'll find something new.

What is MCU?

ATMEGA328P

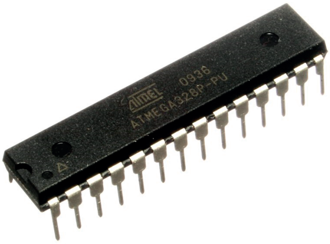


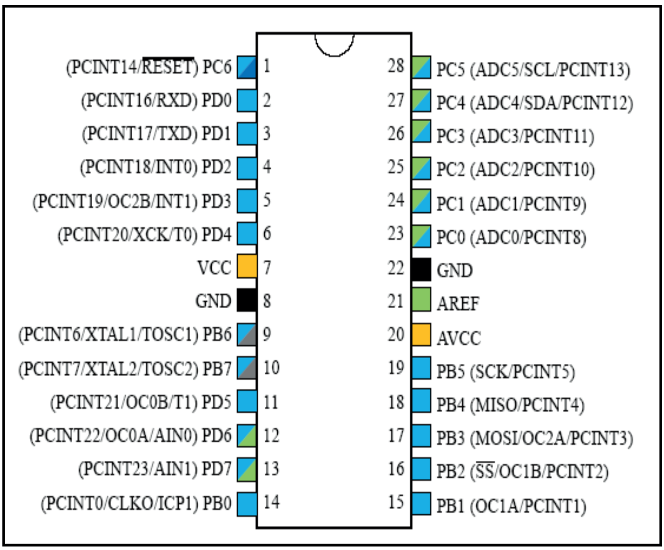
Figure - 1

Position	Pot (Positive number)	$A0$ (PIN)
Most Right	1	1023
Most Left	0	0
Middle	5	511

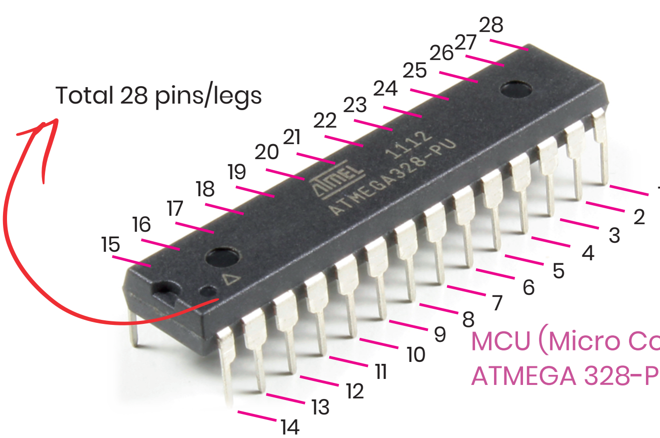
It is this 28-pin semiconductor chip of Fig-1. The full name is “Micro Controlling Unit”, the short name is “Microcontroller”, and the abbreviated name is “MCU”. The MCU can process only 8-bit data at a time.

What is MCU?

Pictorial view



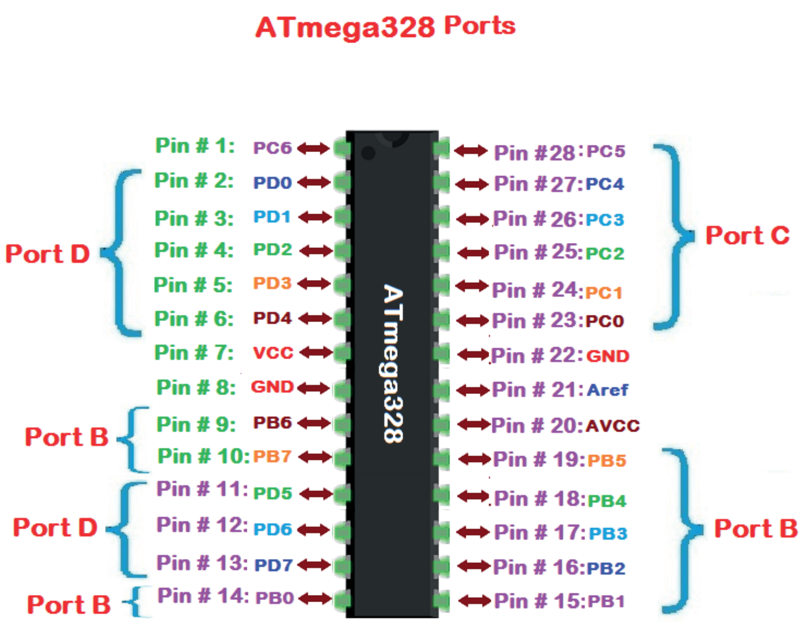
Pictorial view, pin diagram, and pin signals of ATmega328P microcontroller



MCU (Micro Controlling Unit): ATMEGA 328-PU

What is MCU?

Port view

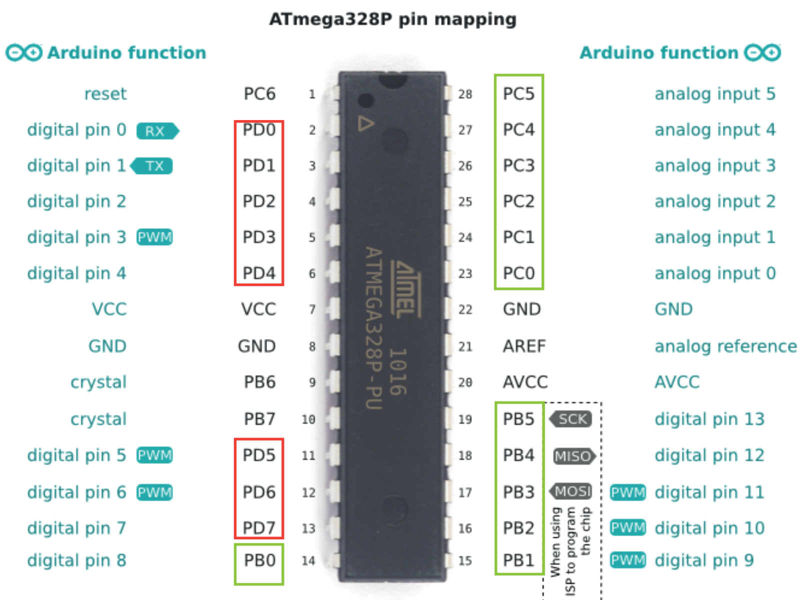


What is MCU?

Pin Mapping

Analog pins = 0 >> 5
= 6 pins
= Port C

Digital pin = 0 >> 7
= 8 pins
= Port D



Digital pin = 0 >> 6
= 6 pins
= Port B

Total input/output pin
= 6 +6 +8 = 20